Data sheet

# TCS 3.81/09/90 3.5SN GN BX

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



## General ordering data

| | |
|---|---|
| Order No. | 2650500000 |
| Type | TCS 3.81/09/90 3.5SN GN BX |
| GTIN (EAN) | 4050118636475 |
| Qty. | 192 items |
| Product data | IEC: 320 V / 10 A / 0.2 - 1.5 mm²<br>UL: 150 V / 10 A / AWG 26 - AWG 16 |
| Packaging | Box |

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# Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |

### Dimensions and weights

| | |
|---|---|
| Net weight | 4.14 g |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | e8ca8b50-189f-4e0d-bdaa-5c8b34abe5bd |

### System parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE basic – Series TCS | Wire connection method | Clamping yoke connection |
| Mounting onto the PCB | THT solder connection | Conductor outlet direction | 90° |
| Pitch in mm (P) | 3.81 mm | Pitch in inches (P) | 0.150 " |
| Number of poles | 9 | Pin series quantity | 1 |
| Number of rows | 1 | Solder pin length (l) | 3.5 mm |
| Solder pin dimensions | 0.5 x 0.9mm | Solder eyelet hole diameter (D) | 1.3 mm |
| Number of solder pins per pole | 1 | Screwdriver blade | 0.4 x 2.5 |
| Tightening torque, min. | 0.2 Nm | Tightening torque, max. | 0.23 Nm |
| Clamping screw | M 2 | Stripping length | 5 mm |
| L1 in mm | 30.48 mm | L1 in inches | 1.200 " |
| Protection degree | IP20 | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PA | Colour | Pale green |
| Colour chart (similar) | RAL 6021 | Insulating material group | I |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| Contact material | Cu-alloy | Contact surface | tinned |
| Tinning type | matt | Storage temperature, min. | -40 °C |
| Storage temperature, max. | 70 °C | Operating temperature, min. | -40 °C |
| Operating temperature, max. | 105 °C | | |

### Conductors suitable for connection

| | | | |
|---|---|---|---|
| Clamping range, min. | 0.2 mm² | Clamping range, max. | 1.5 mm² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 16 |
| Solid, min. H05(07) V-U | 0.2 mm² | Solid, max. H05(07) V-U | 1.5 mm² |
| Flexible, min. H05(07) V-K | 0.2 mm² | Flexible, max. H05(07) V-K | 1 mm² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.25 mm² | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1 mm² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.25 mm² | w. wire end ferrule, DIN 46228 pt 1, max. | 1 mm² |

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### Rated data acc. to IEC

| | | | |
|---|---|---|---|
| Rated current, min. number of poles (Tu=20°C) | 10 A | Rated voltage for surge voltage class / pollution degree II/2 | 320 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 250 V | Rated voltage for surge voltage class / pollution degree III/3 | 160 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 2.5 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV | | |

### Rated data acc. to CSA

| | | | |
|---|---|---|---|
| Rated voltage (Use group B / CSA) | 150 V | Rated current (Use group B / CSA) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 16 |

### Rated data acc. to UL 1059

| | | | |
|---|---|---|---|
| Institute (cURus) | CURUS | Certificate No. (cURus) | E60693 |
| Rated voltage (Use group B / UL 1059) | 150 V | Rated current (Use group B / UL 1059) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 16 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

### Packing

| | | | |
|---|---|---|---|
| Packaging | Box | VPE length | 168.00 mm |
| VPE width | 133.00 mm | VPE height | 47.00 mm |

### Important note

| | |
|---|---|
| Notes | • Only compatible with OMNIMATE basic products<br>• P on drawing = pitch<br>• Rated current related to rated cross-section & min. No. of poles.<br>• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.<br>• In the case of a two-pole terminal, the insulating body must be held against the terminal when tightening the screw.<br>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC002643 | ETIM 9.0 | EC002643 |
| ETIM 10.0 | EC002643 | ECLASS 14.0 | 27-46-01-01 |
| ECLASS 15.0 | 27-46-01-01 | | |

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## Drawings

